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PTO/SB/21 (08-00)

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	<b>Application Number</b>	10/823,745
	<b>Filing Date</b>	April 14, 2004
	<b>First Named Inventor</b>	Jun KOYAMA et al.
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	
<b>Total Number of Pages in This Submission</b>		<b>Attorney Docket Number</b> 0756-7282

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosures 1. Request for Corrected Notice of Recordation 2. 3. 4. 5. 6.
<b>Remarks</b> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 50-2280 for the above identified docket number.		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165
Signature	
Date	10-27-04

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.			
Type or printed name			
Signature		Date	10-27-04

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/21 (08-00)

**TRANSMITTAL  
FORM**

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<b>Application Number</b>	10/823,745		
	<b>Filing Date</b>	April 14, 2004	
	<b>First Named Inventor</b>	Jun KOYAMA et al.	
	<b>Group Art Unit</b>		
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**ENCLOSURES (check all that apply)**

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<b>Remarks</b> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 50-2280 for the above identified docket number.		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165
Signature	
Date	10-27-04

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Signature		Date	10.27.04

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Attorney Docket No. 0756-7282

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	)	Group Art Unit:
Jun KOYAMA et al.	)	Examiner:
Serial No. 10/823,745	)	<u>CERTIFICATE OF MAILING</u>
Filed: April 14, 2004	)	I hereby certify that this correspondence is
For: D/A CONVERTER CIRCUIT,	)	being deposited with the United States Postal
SEMICONDUCTOR DEVICE	)	Service with sufficient postage as First Class
INCORPORATING THE D/A	)	Mail in an envelope addressed to:
CONVERTER CIRCUIT, AND	)	Commissioner for Patents, P.O. Box 1450,
MANUFACTURING METHOD OF	)	Alexandria, VA 22313-1450, on
THEM	)	<u>10-27-04</u>
	)	<u>Ashe M. Stamps</u>

**REQUEST FOR CORRECTED NOTICE OF RECORDATION**  
**OF ASSIGNMENT DOCUMENT**

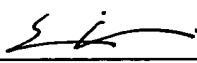
Honorable Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The Notice of Recordation of Assignment Document received in the above-identified application has errors thereon due to Patent Office error as shown in red on the attached copy.

In view of the above, it is requested that a Corrected Notice of Recordation of Assignment Document be issued.

Respectfully submitted,

  
\_\_\_\_\_  
Eric J. Robinson  
Reg. No. 38,285

Robinson Intellectual Property Law Office, P.C.  
PMB 955  
21010 Southbank Street  
Potomac Falls, Virginia 20165  
(571) 434-6789



10/16/04

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 01, 2004

PTAS

ROBINSON INTELLECTUAL PROPERTY LAW OFFICE  
ERIC J. ROBINSON  
21010 SOUTHBANK STREET  
POTOMAC FALLS, VA 20165



\*102724161A\*

## UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/14/2004

REEL/FRAME: 015204/0941

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KOYAMA, JUN

DOC DATE: 03/23/2004

ASSIGNOR:

MIYAKE, HIROYUKI

DOC DATE: 03/22/2004

ASSIGNOR:

TAKAHASHI, KEI

DOC DATE: 03/22/2004

ASSIGNOR:

MIYATA, KAZUHIKO

DOC DATE: 03/09/2004

ASSIGNEE:

SEMICONDUCTOR ENERGY LABORATORY  
CO., LTD.  
398, HASE  
ATSUGI-SHI, KANAGAWA, JAPAN  
243-  
0036

Assignee:

Sharp Kabushiki Kaisha  
22-22, Nagaike-cho, Abeno-ku  
Osaka-shi, Osaka 545-0013  
Japan

SERIAL NUMBER: 10823745

FILING DATE: 04/14/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: D/A CONVERTER CIRCUIT, SEMICONDUCTOR DEVICE INCORPORATING THE D/A  
CONVERTER CIRCUIT, AND MANUFACTURING METHOD OF THEM

RNICOL, SUPERVISOR  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

4-14-04



04-19-2004



102724161

Form PTO-1595  
(Rev. 03/01)  
OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office  
Docket No. 0756-7282

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jun KOYAMA  
Hiroyuki MIYAKE  
Kei TAKAHASHI  
Kazuhiko MIYATA

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: March 23, 2004; March 22, 2004;  
March 22, 2004 and March 9, 2004

2. Name and address of receiving party(ies)

Name: Semiconductor Energy Laboratory Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 398, Hase

Atsugi-shi

City: Kanagawa-ken State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: Japan Postal Code: 243-0036

Additional name(s) & address(es) attached? ☒ Yes ☐ No

17548 U.S. PTO  
10/823745



041404

4. Application number(s) or patent number(s);

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

04/15/2004 TBESHAN1 00000018 10823745

05 FD:802

40.00 DF

Additional numbers attached? ☐ Yes ☒ No

16823745

5. Name and address of party to whom correspondence concerning document should be mailed:

Attorney Name: Eric J. Robinson  
Firm Name: Robinson Intellectual Property Law Office  
Internal Address: PMB 955  
Street Address: 21010 Southbank Street  
City: Potomac Falls State: VA Zip: 20165

7. Total number of applications and patents involved: 1

8. Total fee (37 CFR 3.41) ..... \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

6. Submission Type

- ☒ New  
☐ Resubmission (Non-Recordation)  
Document ID# \_\_\_\_\_  
☐ Correction of PTO Error  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_  
☐ Corrective Document  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

9. Deposit account number:

50-2280

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

10. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Eric J. Robinson, Reg. No. 38,285

Name of Person Signing

Signature

April 14, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 4

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on \_\_\_\_\_

2. Name and address of receiving party(ies)

Sharp Kabushiki Kaisha  
22-22, Nagaike-cho, Abeno-ku  
Osaka-shi, Osaka 545-0013  
Japan

ASSIGNMENT

Serial No. \_\_\_\_\_

Filed \_\_\_\_\_

WHEREAS, Jun KOYAMA, Hiroyuki MIYAKE, Kei TAKAHASHI and Kazuhiko MIYATA (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in D/A CONVERTER CIRCUIT, SEMICONDUCTOR DEVICE INCORPORATING THE D/A CONVERTER CIRCUIT, AND MANUFACTURING METHOD OF THEM for which an application for Letters Patent of the United States of America has been executed by the undersigned on \_\_\_\_\_, and;

WHEREAS, Semiconductor Energy Laboratory Co., Ltd. of 398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan and Sharp Kabushiki Kaisha of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-0013 Japan its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue

applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of ROBINSON INTELLECTUAL PROPERTY LAW OFFICE the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

*In witness thereof*, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 03/23/2004

Signature  
Name

Jun Koyama  
Jun KOYAMA

Date 03/22/2004

Signature  
Name

Hiroyuki MIYAKE  
Hiroyuki MIYAKE

Date 03/22/2004

Signature  
Name

Kei Takahashi  
Kei TAKAHASHI

Date 03/09/2004

Signature  
Name

Kazuhiko Miyata  
Kazuhiko MIYATA

This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.

Witness \_\_\_\_\_

Signature \_\_\_\_\_

Witness \_\_\_\_\_

Signature \_\_\_\_\_

Witness \_\_\_\_\_

Signature \_\_\_\_\_